

### Imperial Spur Gears

- \* These gears were produced in fine (100DP) and coarse (64DP) variants.
- \* The gears are bored 1/8" except the 100DP 14t which is bored 2.0mm.
- \* A limited range is currently available, but the complete range is shown here for information purposes.
- \* A small additional running clearance is recommended in addition to the quoted centres.

| <b>100DP Spur Gears – Diameter and Meshing Centres (mm)</b> |            |           |           |           |           |           |           |           |
|---|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Teeth</b>  | <b>O/D</b> | <b>14</b> | <b>18</b> | <b>20</b> | <b>21</b> | <b>28</b> | <b>34</b> | <b>37</b> |
| <b>14</b>   | 4.32       | 3.81      | 4.19      | 4.45      | 4.57      | 5.46      | 6.22      | 6.60      |
| <b>18</b>   | 5.08       | 4.19      | 4.57      | 4.83      | 4.95      | 5.84      | 6.60      | 6.99      |
| <b>20</b>   | 5.59       | 4.45      | 4.83      | 5.08      | 5.21      | 6.10      | 6.86      | 7.24      |
| <b>21</b>   | 5.84       | 4.57      | 4.95      | 5.21      | 5.33      | 6.22      | 6.99      | 7.37      |
| <b>28</b>   | 7.62       | 5.46      | 5.84      | 6.10      | 6.22      | 7.11      | 7.87      | 8.26      |
| <b>34</b>   | 9.14       | 6.22      | 6.60      | 6.86      | 6.99      | 7.87      | 8.64      | 9.02      |
| <b>37</b>   | 9.91       | 6.60      | 6.99      | 7.24      | 7.37      | 8.26      | 9.02      | 9.40      |

| <b>64DP Spur Gears – Diameter and Meshing Centres (mm)</b> |            |           |           |           |           |           |           |
|--|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Teeth</b>   | <b>O/D</b> | <b>13</b> | <b>14</b> | <b>16</b> | <b>18</b> | <b>20</b> | <b>22</b> |
| <b>13</b>  | 6.35       | 5.56      | 5.56      | 5.95      | 6.35      | 6.75      | 7.14      |
| <b>14</b>  | 6.35       | 5.56      | 5.56      | 5.95      | 6.35      | 6.75      | 7.14      |
| <b>16</b>  | 7.14       | 5.95      | 5.95      | 6.35      | 6.75      | 7.14      | 7.54      |
| <b>18</b>  | 7.94       | 6.35      | 6.35      | 6.75      | 7.14      | 7.54      | 7.94      |
| <b>20</b>  | 8.73       | 6.75      | 6.75      | 7.14      | 7.54      | 7.94      | 8.33      |
| <b>22</b>  | 9.53       | 7.14      | 7.14      | 7.54      | 7.94      | 8.33      | 8.73      |

### Metric Spur Gears

- \* These gears are produced in fine (M0.3) and coarse (M0.4) variants.
- \* The gears are bored 3.0mm and are 1.4mm thick.
- \* An additional running clearance is recommended in addition to the quoted centres.

| <b>M0.3 Spur Gears – Diameter and Meshing Centres (mm)</b>         |            |           |           |           |           |           |           |           |           |
|--|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Recommended running clearance 0.1mm in addition to quoted centres. |            |           |           |           |           |           |           |           |           |
| <b>Teeth</b>   | <b>O/D</b> | <b>14</b> | <b>16</b> | <b>18</b> | <b>20</b> | <b>22</b> | <b>25</b> | <b>28</b> | <b>32</b> |
| <b>14</b>  | 4.80       | 4.20      | 4.50      | 4.80      | 5.10      | 5.40      | 5.85      | 6.30      | 6.90      |
| <b>16</b>  | 5.40       | 4.50      | 4.80      | 5.10      | 5.40      | 5.70      | 6.15      | 6.60      | 7.20      |
| <b>18</b>  | 6.00       | 4.80      | 5.10      | 5.40      | 5.70      | 6.00      | 6.45      | 6.90      | 7.50      |
| <b>20</b>  | 6.60       | 5.10      | 5.40      | 5.70      | 6.00      | 6.30      | 6.75      | 7.20      | 7.80      |
| <b>22</b>  | 7.20       | 5.40      | 5.70      | 6.00      | 6.30      | 6.60      | 7.05      | 7.50      | 8.10      |
| <b>25</b>  | 8.10       | 5.85      | 6.15      | 6.45      | 6.75      | 7.05      | 7.50      | 7.95      | 8.55      |
| <b>28</b>  | 9.00       | 6.30      | 6.60      | 6.90      | 7.20      | 7.50      | 7.95      | 8.40      | 9.00      |
| <b>32</b>  | 10.20      | 6.90      | 7.20      | 7.50      | 7.80      | 8.10      | 8.55      | 9.00      | 9.60      |

| <b>M0.4 Spur Gears – Diameter and Meshing Centres (mm)</b>          |            |           |           |           |           |           |
|---|------------|-----------|-----------|-----------|-----------|-----------|
| Recommended running clearance 0.15mm in addition to quoted centres. |            |           |           |           |           |           |
| <b>Teeth</b>  | <b>O/D</b> | <b>14</b> | <b>16</b> | <b>18</b> | <b>20</b> | <b>22</b> |
| <b>14</b>   | 6.40       | 5.60      | 6.00      | 6.40      | 6.80      | 7.20      |
| <b>16</b>   | 7.20       | 6.00      | 6.40      | 6.80      | 7.20      | 7.60      |
| <b>18</b>   | 8.00       | 6.40      | 6.80      | 7.20      | 7.60      | 8.00      |
| <b>20</b>   | 8.80       | 6.80      | 7.20      | 7.60      | 8.00      | 8.40      |
| <b>22</b>   | 9.60       | 7.20      | 7.60      | 8.00      | 8.40      | 8.80      |